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Attorney Docket No.: DOC-0216US (ISIS:003CP1) USSN 10/712,795

## AMENDMENTS TO THE CLAIMS

## LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-108 (Canceled)

- 109. (New) An antisense compound 12 to 30 nucleobases in length, wherein said compound specifically hybridizes with up to two mismatches to a sequence in the range of nucleotides 3230-3288 as set forth in SEQ ID NO:3.
- 110. (New) The antisense compound of claim 109, which is 14 to 20 nucleotides in length.
- 111. (New) The antisense compound of claim 109, which is an antisense oligonucleotide.
- 112. (New) The antisense oligonucleotide of claim 111, wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.
- 113. (New) The antisense oligonucleotide of claim 112, wherein the modified internucleoside linkage is a phosphorothioate linkage.
- 114. (New) The antisense oligonucleotide of claim 111, wherein the antisense oligonucleotide comprises at least one modified sugar moiety.
- 115. (New) The antisense oligonucleotide of claim 114, wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.
- 116. (New) The antisense oligonucleotide of claim 114, wherein the modified sugar moiety is a bicyclic sugar moiety.
- 117. (New) The antisense oligonucleotide of claim 111, wherein the antisense oligonucleotide is a chimeric oligonucleotide having a plurality of 2'-deoxynucleotides flanked on each side by at least one nucleotide having a modified sugar moiety.
- 118. (New) The antisense oligonucleotide of claim 117, wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.
- 119. (New) The antisense oligonucleotide of claim 117, wherein the modified sugar moiety is a bicyclic sugar moiety.

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- 120. (New) The antisense oligonucleotide of claim 111, wherein the antisense oligonucleotide comprises at least one modified nucleobase.
- 121. (New) The antisense oligonucleotide of claim 120, wherein the modified nucleobase is a 5-methylcytosine.
- 122. (New) The antisense compound of claim 109, wherein the antisense compound is in a salt form.

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- 123. (New) The antisense compound of claim 122, wherein the antisense compound is a sodium salt.
- 124. (New) A composition comprising the antisense compound of any one of claims 109-123 and a pharmaceutically acceptable carrier or diluent.
- 125. (New) An antisense oligonucleotide 12 to 30 nucleobases in length comprising at least 8 contiguous nucleotides of SEQ ID NO:247.
- 126. (New) The antisense oligonucleotide of claim 125, fourteen to twenty nucleobases in length.
- 127. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO:247.
- 128. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide has a sequence consisting of SEQ ID NO:247.
- 129. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.
- 130. (New) The antisense oligonucleotide of claim 129, wherein the modified internucleoside linkage is a phosphorothioate linkage.
- 131. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide comprises at least one modified sugar moiety.
- 132. (New) The antisense oligonucleotide of claim 131, wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.

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- 133. (New) The antisense oligonucleotide of claim 131, wherein the modified sugar moiety is a bicyclic sugar moiety.
- 134. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide is a chimeric oligonucleotide having a plurality of 2'-deoxynucleotides flanked on each side by at least one nucleotide having a modified sugar moiety.
- 135. (New) The antisense oligonucleotide of claim 134, wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.
- 136. (New) The antisense oligonucleotide of claim 134, wherein the modified sugar moiety is a bicyclic sugar moiety.
- 137. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide comprises at least one modified nucleobase.
- 138. (New) The antisense oligonucleotide of claim 137, wherein the modified nucleobase is a 5-methylcytosine.
- 139. (New) The antisense oligonucleotide of claim 125, wherein the antisense oligonucleotide is in a salt form.
- 140. (New) The antisense oligonucleotide of claim 139, wherein the antisense oligonucleotide is a sodium salt.
- 141. (New) A composition comprising the antisense oligonucleotide of any one of claims 125-140 and a pharmaceutically acceptable carrier or diluent.
- 142. (New) An antisense oligonucleotide 20 nucleobases in length having a sequence of nuclcobases as set forth in SEQ ID NO:247 and comprising 5-methylcytidine at nucleobases 2, 3, 5, 9, 12, 15, 17, 19, and 20, wherein every internucleoside linkage is a phosphorothioate linkage, nucleobases 1-5 and 16-20 are 2'-O-methoxyethyl nucleotides, and nucleobases 6-15 are 2'-deoxynucleotides.
- 143. (New) The antisense oligonucleotide of claim 142, wherein the antisense oligonucleotide is in a salt form.
- 144. (New) The antisense oligonucleotide of claim 143, wherein the antisense oligonucleotide is à sodium salt.

- 145. (New) A composition comprising the antisense oligonucleotide of any of claims 142 -144 and a pharmaceutically acceptable carrier or diluent.
- 146. (New) A method of lowering serum cholesterol levels in a human comprising administering to said human a therapeutically effective amount of the antisense compound of claim 109.
- 147. (New) The method of claim 146, wherein the serum cholesterol levels are serum LDLcholesterol levels.
- 148. (New) The method of claim 146, wherein the serum cholesterol levels are serum VLDL-cholesterol levels.
- 149. (New) The method of claim 146, wherein the serum cholesterol levels are serum total cholesterol levels.
- 150. (New) A method of lowering lipoprotein levels in a human comprising administering to said human a therapeutically effective amount of the antisense compound of claim 109.
- 151. (New) The method of claim 150, wherein the lipoprotein levels are low density lipoprotein levels.
- 152. (New) The method of claim 150, wherein the lipoprotein levels are very low density lipoprotein levels.
- 153. (New) The method of claim 150, wherein the lipoprotein levels are Lipoprotein(a) levels.
- 154. (New) A method of lowering serum apolipoprotein B levels in a human comprising administering to said human a therapeutically effective amount of the antisense compound of claim 109.
- 155. (New) The method of claim 154, wherein the serum apolipoprotein B is apolipoprotein B-100.
- 156. (New) A method of treating a human having a cardiovascular disease or disorder comprising administering to said human a therapeutically effective amount of the antisense compound of claim 109.

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157. (New) The method of claim 156, wherein the disease or disorder is abnormal lipid metabolism, abnormal cholesterol metabolism, or abnormal triglyceride metabolism.

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- 158. (New) The method of claim 156, wherein the disease or disorder is hypercholesterolemia, hyperlipidemia, or hypertriglyceridemia.
- 159. (New) The method of claim 156, wherein the disease or disorder is atherosclerosis.
- 160. (New) The method of claim 156, further comprising a step of measuring serum LDLcholesterol, serum VLDL-cholesterol, serum total cholesterol, serum apolipoprotein B, scrum triglycerides, or serum Lipoprotein(a).
- 161. (New) The method of any one of claims 146-160, wherein the antisense compound is administered intravenously.
- 162. (New) The method of any one of claims 146-160, wherein the antisense compound is administered subcutaneously.
- 163. (New) A method of lowering serum cholesterol levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 125.
- 164. (New) The method of claim 163 wherein the serum cholesterol levels are serum LDLcholesterol levels.
- 165. (New) The method of claim 163, wherein the serum cholesterol levels are serum VLDL-cholesterol levels.
- 166. (New) The method of claim 163, wherein the serum cholesterol levels are serum total cholesterol levels
- 167. (New) A method of lowering lipoprotein levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 125.
- 168. (New) The method of claim 167, wherein the lipoprotein levels are low density lipoprotein levels.

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- 169. (New) The method of claim 167, wherein the lipoprotein levels are very low density lipoprotein levels.
- 170. (New) The method of claim 167, wherein the lipoprotein levels are Lipoprotein(a) levels.
- 171. (New) A method of lowering serum apolipoprotein B levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 125.
- 172. (New) The method of claim 171, wherein the serum apolipoprotein B is apolipoprotein B-100.
- 173. (New) A method of treating a human having a cardiovascular disease or disorder comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 125.
- 174. (New) The method of claim 173, wherein the disease or disorder is abnormal lipid metabolism, abnormal cholesterol metabolism, or abnormal triglyceride metabolism.
- 175. (New) The method of claim 173, wherein the disease or disorder is hypercholesterolemia, hyperlipidemia, or hypertriglyceridemia.
- 176. (New) The method of claim 173, wherein the disease or disorder is atherosclerosis.
- 177. (New) The method of claim 173, further comprising a step of measuring serum LDI.cholesterol, serum VLDL-cholesterol, serum total cholesterol, serum apolipoprotein B, serum triglycerides, or serum Lipoprotein(a).
- 178. (New) The method of any one of claims 163-177, wherein the antisense oligonucleotide is administered intravenously.
- 179. The method of any one of claims 163-177, wherein the antisense oligonucleotide is administered subcutaneously.
- 180. (New) A method of lowering serum cholesterol levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 142.

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181. (New) The method of claim 180 wherein the serum cholesterol levels are serum LDLcholesterol levels.

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- 182. (New) The method of claim 180, wherein the serum cholesterol levels are serum VLDL-cholesterol levels.
- 183. (New) The method of claim 180, wherein the serum cholesterol levels are serum total cholesterol levels.
- 184. (New) A method of lowering lipoprotein levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 142.
- 185. (New) The method of claim 184, wherein the lipoprotein levels are low density lipoprotein levels.
- 186. (New) The method of claim 184, wherein the lipoprotein levels are very low density lipoprotein levels.
- 187. (New) The method of claim 184, wherein the lipoprotein levels are Lipoprotein(a) levels.
- 188. (New) A method of lowering serum apolipoprotein B levels in a human comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 142,
- 189. (New) The method of claim 188, wherein the serum apolipoprotein B is apolipoproteinB-100.
- 190. (New) A method of treating a human having a cardiovascular disease or disorder comprising administering to said human a therapeutically effective amount of the antisense oligonucleotide of claim 142.
- 191. (New) The method of claim 190, wherein the disease or disorder is abnormal lipid metabolism, abnormal cholesterol metabolism, or abnormal triglyceride metabolism.
- 192. (New) The method of claim 190, wherein the disease or disorder is hypercholesterolemia, hyperlipidemia, or hypertriglyceridemia.

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- 193. (New) The method of claim 190, wherein the disease or disorder is atherosclerosis.
- 194. (New) The method of claim 190, further comprising a step of measuring serum LDLcholesterol, serum VLDL-cholesterol, serum total cholesterol, serum apolipoprotein B, serum triglycerides, or serum Lipoprotein(a).
- 195. (New) The method of any one of claims 180-194, wherein the antisense oligonucleotide is administered intravenously.
- 196. The method of any one of claims 180-194, wherein the antisense oligonucleotide is administered subcutaneously.